Physics

P2 Heat

P 2.1 Thermal expansion
P 2.1.1 Thermal expansion of solid bodies
P 2.1.2 Thermal expansion of liquids
P 2.1.3 Thermal anomaly of water

P 2.2 Heat transfer
P 2.2.1 Thermal conduction
P 2.2.2 Solar collector

P 2.3 Heat as a form of energy
P 2.3.1 Mixing temperatures
P 2.3.2 Heat capacities
P 2.3.3 Conversion of mechanical energy into heat energy
P 2.3.4 Conversion of electrical energy into heat energy

P 2.4 Phase transitions
P 2.4.1 Melting heat and evaporation heat
P 2.4.2 Measuring vapor pressure
P 2.4.3 Critical temperature

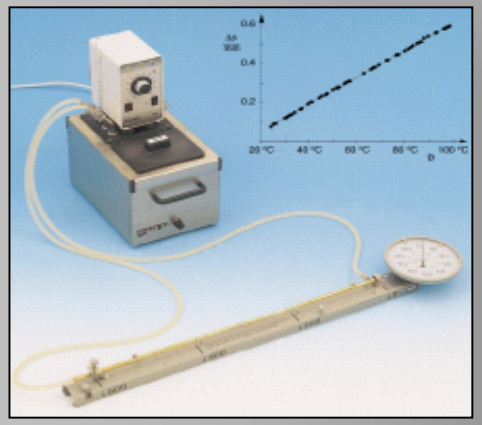
P 2.5 Kinetic theory of gases
P 2.5.1 Brownian motion of molecules
P 2.5.2 Laws of gases
P 2.5.3 Specific heat of gases

P 2.6 Thermodynamic cycle
P 2.6.1 Hot-air motor : qualitative experiments
P 2.6.2 Hot-air motor : quantitative experiments
P 2.6.3 Heat pump

Physics

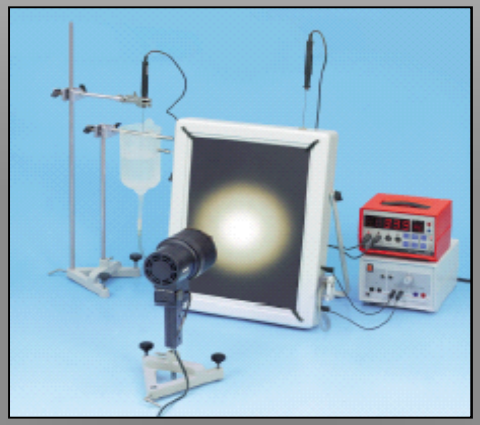
P2 Heat

P 2.1 Thermal expansion



Thermal expansion of solid bodies

P 2.2 Heat Transfer



Solar collector

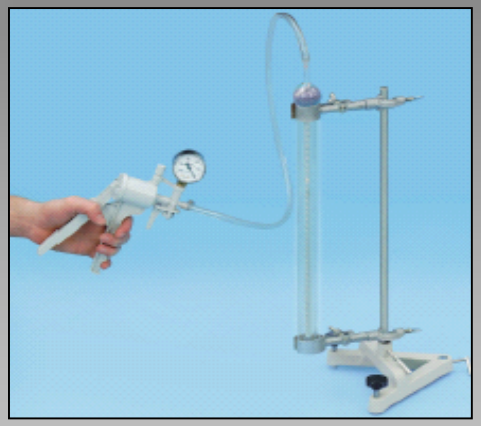
P 2.3 Heat as a form energy

Heat capacities

P 2.4 Phase transition

Melting heat and evaporation heat

P 2.5 Kinetic theory of gases



Pressure-dependency of the volume of a gas at a constant temperature

P 2.6 Thermodynamic cycle

Determining the efficiency of the heat pump as a function of the temperature differential